



Conquering the Energy Code for Architects and Engineers: Commercial *Course Outline*

At the end of this course, participants will:

- Understand the structure and rationale behind the energy code
- Be able to differentiate the various compliance pathways and understand the requirements for compliance
- Sharpen communication and coordination practices as related to clients, the design team, code officials and the construction team to remove barriers to compliance
- Understand the interdependence of the building envelope, mechanical and lighting systems and their impacts on energy consumption

And finally, inspire design professionals to build above code minimum.

PART 1: OVERVIEW

1. Introduction: Energy Code Basics

- Benefits and Trends
- Basic Parameters

2. Energy Codes are a Systems-Based Approach

- Whole Building Design
- Systems regulated by code:
 - Building Envelope
 - Mechanical and Service Water Heating
 - Electrical Power and Lighting Systems

3. Coordination and Communication

- Team Communication
- Integrated Design Approach

PART 2: COMMERCIAL ENERGY CODE PROVISIONS

1. Compliance

- Overview and Definitions
- Selecting Compliance Paths

2. Prescriptive Path

- Building Envelope Requirements
- Building Mechanical Systems
- Service Water Heating
- Electric Power and Lighting Systems
- Additional Efficiency Package Options

3. Total Building Performance

4. Existing Buildings

PART 3: DOCUMENTATION AND INSPECTIONS

1. Introduction

2. Compliance

- Plan Review & Documentation
- Supporting Documentation
- Progress Inspections

3. Common Objections

4. Local Laws

5. Resources